Data Mining

Assignment 3

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1. Please see Appendix figure 1.

2. $$\begin{bmatrix} 0 & 0 & 1 & 0 \\ \frac{1}{3} & 0 & 0 & \frac{1}{2} \\ \frac{1}{3} & 0 & 0 & \frac{1}{2} \\ \frac{1}{3} & 1 & 0 & 0 \end{bmatrix}$$

3. $$\begin{bmatrix} \frac{1}{4} \\ \frac{5}{24} \\ \frac{5}{24} \\ \frac{1}{3} \end{bmatrix}$$

4. There are no outgoing edges to A, therefor it's value is 0. C only has an outgoing edge to itself, therefor it's value is almost 1 (if you go from A, B or D to C you can't leave C).

5. Yes they are, the value of A is still low, cause you can only reach A via the teleport. The value of C is still high because there is stil l a change that it keeps linking to itself without teleporting.
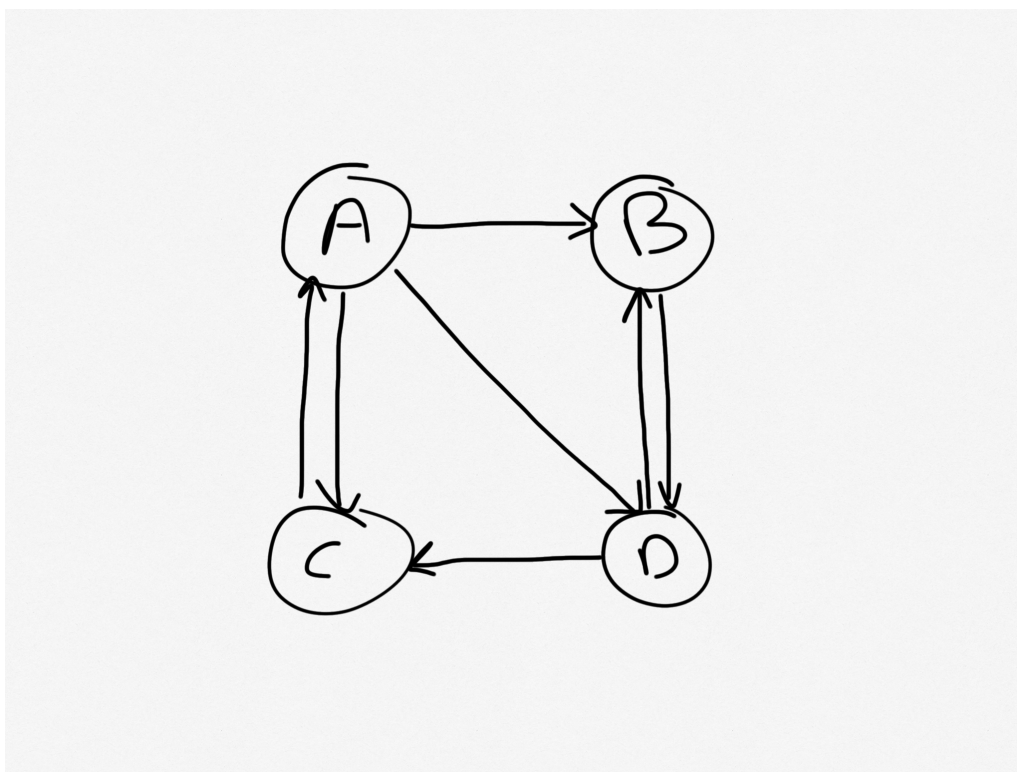
Appendix

Figure 1: The graph for question 1.1